## REJECTION CIRCUITRY FOR VARIABLE-GAIN AMPLIFIERS AND CONTINUOUS-TIME FILTERS

## ABSTRACT OF THE DISCLOSURE

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Variable-gain amplifiers (VGAs) and/or continuous-time filters (CTFs) are implemented with circuitry that provides improved power-supply rejection. The power-supply rejection circuitry may include a current source and a diode-connected MOSFET that inhibit noise in the reference-voltage power supply from reaching the output nodes of the VGA or CTF. Although the present invention enables separate implementations of VGAs and CTFs, in one embodiment, a VGA function and a CTF function are implemented in a single set of (e.g., integrated) circuitry.